INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP2004/012788

A. CLASSIFICATION OF SUBJECT MATTER Int.Cl ⁷ B25J17/00				
According to International Patent Classification (IPC) or to both national classification and IPC				
B. FIELDS SEARCHED				
Minimum documentation searched (classification system followed by c Int.Cl ⁷ B25J17/00, F16H55/18	classification symbols)			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Jitsuyo Shinan Koho 1922–1996 Jitsuyo Shinan Toroku Koho 1996–2004 Kokai Jitsuyo Shinan Koho 1971–2004 Toroku Jitsuyo Shinan Koho 1994–2004 Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)				
C. DOCUMENTS CONSIDERED TO BE RELEVANT				
Category* Citation of document, with indication, where a	ppropriate, of the relevant passages	Relevant to claim No.		
Y JP 56-163624 A (Yoji UMETAN) 16 December, 1981 (16.12.81) Page 4, upper right column, column; Fig. 5 (Family: none)	,	1,3		
Y JP 2000-153488 A (Fujitsu Lt 06 June, 2000 (06.06.00), Par. Nos. [0022] to [0023]; (Family: none)		1,3		
Y JP 2000-97314 A (Kawasaki He Ltd.), 04 April, 2000 (04.04.00), Par. Nos. [0020] to [0022]; 1 (Family: none)		3		
Further documents are listed in the continuation of Box C. See patent family annex.				
**Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" carlier application or patent but published on or after the international filing date and not in conflict with the application but cited to use the principle or theory underlying the invention of considered novel or cannot be considered to involve an invention of considered novel or cannot be considered novel or cannot be considered novel or cannot be considered to involve an expecial reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means the priority date claimed "P" document referring to an oral disclosure, use, exhibition or other means the priority date claimed "E" document of particular relevance; the claimed invention of considered to involve an inventive step when the document of particular relevance; the claimed invention of considered to involve an inventive step when the document of particular relevance; the claimed invention of considered to involve an inventive step when the document of particular relevance; the claimed invention of considered to involve an inventive step when the document of particular relevance; the claimed invention of considered to involve an inventive step when the document of particular relevance; the claimed invention of considered novel or cannot be considered novel or cannot be considered novel or cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention of considered novel or cannot be considered novel or cann		tion but cited to understand ivention laimed invention cannot be lered to involve an inventive laimed invention cannot be step when the document is documents, such combination art		
Name and mailing address of the ISA/ Japanese Patent Office	Authorized officer Telephone No			

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International application No.
PCT/JP2004/012788

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C (Continuation)	DOCUMENTS CONSIDERED TO BE RELEVANT			. '
Category*	Citation of document, with indication, where appropriate, of the relev	ant passages	Relevant to claim N	lo.
A	US 2003/14860 Al (Fuji Machine Mfg. Co., 23 January, 2003 (23.01.03), Full text; all drawings & JP 2003-25266 A	Ltd.),	1-3	
A	<pre>JP 63-72969 A (Fujitsu Ltd.), 02 April, 1988 (02.04.88), Full text; all drawings (Family: none)</pre>		2,3	
A	US 6408224 B1 (National Aerospace Labora of Science Technology Agency), 18 June, 2002 (18.06.02), Full text; all drawings & JP 2001-138279 A	tory	1-3	
A	Microfilm of the specification and drawing annexed to the request of Japanese Utility Model Application No. 184276/1981 (Laid-op No. 88048/1983) (Honda Motor Co., Ltd.), 15 June, 1983 (15.06.83), Full text; all drawings (Family: none)	Σy	2,3	

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